

# Aviral Pulast

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## Education

### Vellore Institute of Technology

B.Tech. Computer Science and Engineering

Chennai, India

Jul 2019 – Jun 2023

## Experience

### Senior Software Engineer

John Deere India

Pune, India

Jul 2024 – Present

- Developed a real-time camera monitoring portal (CamTracker) for production lines; integrated image feeds, **used Redis for high-volume caching**, and containerized services with **Docker** to optimize performance in **large-scale factory environments**.
- Redesigned UI for a production tool (JDAAT), reducing operator **screen read time from 7 to 8 seconds to 2 to 3 seconds** to allow faster shop floor decisions.
- Developed end-to-end budget management and workflow tracking tools for factory operations, building backend APIs in **Go and Spring Boot**, and frontend interfaces in **React.js** to automate manual planning and phase-based product tracking.
- Contributed to the agile delivery pipeline of the SCF team, coordinating with cross-functional stakeholders to iteratively deliver horizontally deployed solutions used in Deere factories around the world.
- Delivered multiple software initiatives with a combined estimated **cost savings of over \$5 million**, driven by improvements in automation, visibility, and operational efficiency.

### Graduate Engineer Trainee

John Deere India

Pune, India

Jul 2023 – Jul 2024

- Developed an Android-based mistake proofing application to assist operators in validating assembly processes, saving approximately **8 hours** of manual effort daily.
- Automated internal workflow processes using PowerApps and Power Automate, reducing operational overhead and generating cost savings of up to **\$5,000**.
- Contributed to a web-based HR platform built using React.js and Python, streamlining community enrollment processes and delivering estimated annual savings **\$100,000**.

### Software Developer Intern

PrepInsta (Adda247)

Noida, India

Dec 2022 – Mar 2023

- Built a CRM tool to automate hiring drive updates, benefiting 500,000+ students nationwide.
- Improved UI on the company's website by identifying and resolving user experience issues.

## Technical Skills

**Backend:** Go, Java (Spring Boot), REST, Node.js, Python, Databricks

**Frontend:** Next.js, JavaScript/TypeScript, HTML/CSS, Kotlin, R/Shiny

**Database:** Microsoft SQL Server, PostgreSQL, Redis

**Miscellaneous:** Microsoft Power Platforms, JIRA, Git, Docker

## Achievements & Responsibilities

- Published a research paper titled '*Baggage Recognition and Collection at Airports*' (Nov2022)[[Read Paper](#)] [🔗](#)
- Serving as a core member of the communications team, coordinating technical fests and departmental events.
- Currently act as the single point of contact (SPOC) for the SCF team, responsible for organizing meetings and coordinating team-wide communications.
- Led a team of 12 participants in JD walkathon, promoting employee engagement and cross-team collaboration.